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On preventing suicide
from exhalation.

446 57
210 15

236 36

15
89
1524 68

4



"Odia in longum facere, quae recorderet, aucta
quae promeret!"

Lectures on the means of
preventing Summer & Autumnal
Fisces. Del Jan^y 17. 1804. begin p: 19

Origin of Epidemic from bad food,
water, & earthquakes - how prevented?

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in the present instance
✓ By this disease I mean an morbid excitement
muscular of a partial nature
or ~~preternatural~~ action, ~~produced~~ in muscular
fibres, seated in different parts of the body.

Gentlemen /

I rise in compliance with your appointment to deliver as the subject of my oration, the result of the observations of four and forty years upon the Summer & Autumnal Disease of the United States. V

In considering this disease, I shall
I enumerate its different forms, & afterwards make a few remarks upon them.

I shall mention its causes, & ~~of preserving the system~~

I shall point out the means ~~which have been used~~ of preventing them, & mention the methods of ~~with facility to prevent it.~~

preventing them, by exterminating this cause.

~~I will perceive at once that I have adopted the idea I have taught for many years in the University of Pennsylvania by calling the~~

The different forms of our Summer & Autumnal disease may be included under the following heads

- 1 Diarrhoea.
- 2 Colera morbus.

+ I pass over here the forms of ^{indigestion} ~~disease in strict~~ the

✓ That all the ^{above} forms of disease ~~are~~ ^{Differ}
~~the same in the~~ only in their seat, and
degrees of ~~the~~ symptoms, but are the same
in their nature, I infer from their appea-
ring at the same seasons, from their
changing into each other,
depending upon the same cause, & disap-
pearing ^{at} ~~from~~ the same time.

+ I pass over all these forms of indisposition
under which the Summer & Autumnal
Disease sometimes disguise themselves, such as
head ache - tooth ache - ophthalmia - neuralgia & ~~the~~
like ^{all the} ~~some~~ other local affections as mentioned
by Dr. Sydenham.

Also sporadic cases of all 10 from other
causes —

2

3 bilious Colic. 4 Dysentery - 5 Febricular, or
what is called in the Southern States inward fever.
6 Mild Intermittent & Mild Remittent. 7 Choo-
-vie ~~for~~ or typhus fever. 8 Inflammatory bilious
fever, and 10 malignant, bilious, or what is
commonly called yellow fever. +

It may appear ~~strange to some~~ ^{strange} to such of
the members of this Society as have not been
my pupils, to ~~consider~~ ^{include} all the forms of disease
which have been mentioned under one
name - But ~~I have~~ ^{there are many} precedents for doing so
in the ~~writers upon~~ ^{in our} ~~some of the~~ practical
books of medicine. ~~but~~ ^{I shall mention but one of them.} The Gout ven-
-ises not only the limbs, but ~~the head~~ ^{the head} every
~~animated~~ other part of the body, ~~but~~ ^{as writers has} ~~we do not~~
upon that account distinguished by a plu-
-ral epithet. ^V The small pox affects with disease
& pain, not only the skin, but the head, the
throat, the lungs, the ~~the~~ bowels & the kidneys,

~~the United States~~

And yet we ^{not} find it, ^{has 3} received new names
from each of those parts in our histories of disea-
-ases. ~~By the summer & autumnal disease of~~

Annual Epidemic of our Country some-
1 The ~~Diarrhoea & Colera morbus~~ ^{generally}
~~times appears~~ generally appears in the form of
~~Diarrhoea &~~ makes its first appearance in
^{in the middle states} July, in which month it puts on the form
of Diarrhoea & Colera morbus.

2 In the month of August it assumes the
more dangerous forms of Dysentery & Colic,
with now & then the forms of fever in which
case, it is ~~either of~~ ^{consists} generally of a
~~single, or at most of but two or three~~ ^{transmits}
in one day, or in two or three days.

~~They are~~ ^{or danger} frequently excited by unripe

~~fruit~~
3 The Dysentery ^{appears more frequently}
in country places than in cities. I have never
seen it epidemic in Philadelphia. The ^{more} ~~dist~~
cordial diet of the inhabitants of cities pro-
-bably

[Faint, illegible handwriting on aged paper, possibly a ledger or account book. The text is written in a cursive script and is mostly obscured by fading and ink bleed-through from the reverse side.]

defends the bowels from the influence of miasmata ~~upon them~~, and determines their action to ~~other~~ the blood vessels in one of the forms of fever.

4 The Dysentery appears chiefly ~~in~~ ^{is} upon high grounds - ^{& frequently at the same time that} ~~in~~ ^{while other forms appear} upon ~~the~~ the declivities of those grounds, or in the plains below them.

5 The different forms of fever appear separately, or together in different years. In the year a mild intermittent

Between the years 1760 & 1766 it appeared ^{chiefly} ~~chiefly~~ in the form of the what ^{was} ~~what~~ formerly called nervous fever, and ~~who~~ was often protracted to ~~one and~~ twenty or thirty & forty days.

In the year 1780 it appeared in Philad^a.



in the form of mild Remittent at which
time it was known by the name of
the break bone fever. The febricula appears
frequently ~~is~~ in Maryland, unaccom-
panied with any other form of fever.
At this time it is said, "though
no body is sick, yet
no one is perfectly well". Mr Colney, ~~was~~
travels thro' this country
~~much travels with this general feverishness~~
of the inhabitants of the Southern States, &
informed me that he ~~found~~ ^{discovered} in his ~~travels~~ this
feverishness ^{among the inhabitants of} to ~~prevail~~ ^{other} several of the Southern
States in the fall of the year. The influ-
ential fever prevailed alone in the city of
Philad^a in the years 1791 & 1792. It was
the forerunner of the malignant, or
yellow fever which prevailed in the
year 1793, & which has for several



has an 1802. ⁸⁰ Sometimes they run into
the year 1802. I have said
each other. This was the last in the

the same forms of
the Summer & Autumnal Disease differ
in different years in ^{their} symptoms - in ^{their} ~~its~~
signs of life and death. ~~in its various stages of case.~~
An obstinate rashness attended the malignant
as a symptom impervious to sweat

fever of 1793 a Diarrhea attended the same
form of fever in 1802, and a moist skin was
a general symptom of ~~the~~ it in 1803. A

V Diff^r Coast^r afford diff^r grades of disease - also residence
as new comers in West Indies.

Different grades of Activity in Curassow - as from
water to 4th stage.

1 V⁶ affects less colors &c - ages &c nations.
- why fresh West Indies escape it & not.

2 also differs in requiring more or less.

- citing canoe D^r Manges story.

3 It appears earlier, or is more protracted - on
west near confluence of fresh & salt water. Elliott.
its predisⁿ: as in Ticond: from a spot?

4 yield to frost &c - heavy rains -

It will be expected I add Conf^r: - in what
instances - never epidemic from it. ^{like consumption}

5 They are most apt to affect Strangers. ^{most higher grades} obvious
in Carol^a than in middle states, where the coldness
of winter &c
follows clearing country.

6 Old people kept alive by them.

7 Different Determin^{ns}: as head - stomach - limbs

& above all liver. In 1791 & 1792 hepat^r very common.
& follow course of winds. Smithill.

7
Sore throat was a favourable symptom in
malignant
the fever of 1793 - but a fatal one in the ^{same} fever
in 1798. An haemorrhage from the gums preceded
death in 1793, but was followed by a recovery
in nearly all the cases in which it occurred
on the 5th day in 1798. Profuse bleeding, & strong
vesicular eruptions were the most effectual
remedies in the ^{malignant} fever of 1793. The same ^{fever} ~~year~~
1793 yielded to moderate bleeding, gentle purges
early blisters & copious sweats in the year 1803. V

7 The disease under consideration differs in
its symptoms, ~~being its nature~~ in its
parts of the same ~~time~~ season. It sometimes
comes on like a heat of dry, and goes off w:
the gentleness of a domestic animal. Again
its parts are an opposite character. Sometimes
it makes its first appearance in the form
of a Dysentery, & changes in its course
into a malignant fever. In Dural

sometimes known on the first ^{visit}, again not so -
V. ~~the~~ yellow pines known first visit - in 1793
not so in 1802 & 1803.

8 ~~When these~~ ~~the~~ ~~have~~ All the forms
 that have been mentioned
 of fever ~~in~~ ~~the~~ when they become epidemic
 chase away all other forms of disease, or
 impart some of their symptoms to them.
~~The~~ ~~do~~ ~~not~~ ~~in~~ 1780 ~~but~~ ~~on~~ ~~the~~ ~~symptoms~~
 of ~~a~~ ~~continuous~~. The purpurile fever becomes
 an Intermittent during the prevalence of
 that form of fever. The ~~malignant~~ yellow
 fever of ~~1793~~ 1793 blended its malignant
 symptoms with the gout, ~~in~~ the year 1798
 it ~~predominated~~ ~~on~~ ~~the~~ ~~fever~~ ~~excited~~ ~~by~~
 a broken leg ~~to~~ and ~~demonstrated~~ ~~its~~ ~~universal~~
 dominion ~~as~~ ~~by~~ ~~an~~ ~~predominating~~ ~~mixing~~ ~~with~~
~~the~~ ~~fever~~ ~~excited~~ ~~by~~ ~~a~~ ~~broken~~ ~~leg~~, &
 in one instance ~~which were~~ ~~accidents~~
 finally sealed its presence by an ~~erupted~~
 black vomiting on the 5th day after a broken leg.



Summer & Autumnal ^{quids}
of ~~the~~ ~~same~~ Disease ^{differs} in different
years, and in different ^{months} of the
same year to a different mode of cure.
In the year 1793 the malignant fever
of the year 1793 ^{required} ~~quids~~ only to copious bleeding,
strong purges & a saturation. The same
fever in 1803 was cured by a moderate
bleeding, ^{active} ~~gentle~~ purges, early blisters, and
copious sweats. The peruvian Bark was
exhibited with universal success in the inter-
mittents of 1781, the same medicine did
harm in the intermittents of
1794. ^{Bleeding proved fatal} in the malignant fever of 1793 in
the ~~beginning~~ ^{middle} of the month of August.
After the ~~domination~~ of the stimulus of
heat was abstracted from that of mis-
erable misdeeds near the middle of September
the ~~same~~ ^{after} remedy blood & Viper's rose under

v Dr/Blum is yellow skin only as

10

the use of the ~~same~~ ^{and of} ~~same~~ lancet, but finally
became its ~~general~~ ^{principal} and
most successful remedy.

10 The Summer & Autumnal Differ in its
degrees of mortality in different years, &
sometimes in different parts of the same
Seasons. — ~~The Remitting for the whole~~
few recovered from the malignant fever of
1802 — a few died of the same fever in the
year 1803. The malignant fever of 1793 was
early fatal when treated with ~~the~~ ^{depleting} ~~remedy~~
^{their whole}
— dies in ~~system~~, but it resisted ~~the~~ ^{the whole}
force of ~~more~~ ^{of medicine} ~~remedies~~ in the succeeding month.
This difference in the mortality of the yellow
fever is not confined to the United States.
Dr Halliday lost but

while Dr Howe acknowledges that ~~the~~ ^{seldom}
~~most~~ ^{more} than 3 to 3 in 4 recover

✓ I shall only add two remarks. 1 Study
study diseases in their connection with each
other & muscular motion ^{ch} see in Vol. II
on Epidemics
2 Study every Epidemic every year.

✕ How do they act? Stomach - lungs - pores.

in the most successful practice on the Island
of Jamaica. — It would ~~seem as if dis-~~
~~ease~~ be foreign to the ~~dis~~ design of this
discourse to inquire into the Causes which
produce the variety in the forms, Grades, &c
of our Summer & Autumnal Disease.
I shall only observe that ^{they are chiefly} ~~most of them may~~
~~be discovered~~ to be sought for in the sensible
& insensible Qualities of the Atmosphere &
in the course of Winds, and in the Qualities
of the ~~Elemental~~ Aliments of different years.

We come next to mention the Causes of
the disease which is the Subject of our
oration^x. These are chiefly

~~Not shown~~ while foreign Countries
are obliged to look for ships & Epidemics in
exhalations from Volcanos — & Wells, or
springs of water, ~~which are~~ in addition to

V They are more or less active according to
the sources from whence they are derived. The
exhalations ^{from} of cities ^{filth is} are more active, than in
~~those which occur in the~~ from marsh exha-
-lations, & the exhalations ^{in cities} from Dochs & cellars,
& the holds of ships more active than from
Streets & gutters

12

putrid exhalations from ^{putrefied} ~~some~~ vegetable &
Animal matters. ^{bad water.} ~~we~~ are under no necessity
of extending our views beyond the last source
that has been mentioned to account for
~~our Annual Epidemics.~~ Upon the subject
of exhalations in our Country, I shall
make the following remarks. —

^{are derived}
~~They consist of~~ chiefly of from putrid matters
of a vegetable nature. These are ✓
1 These exhalations are the product of ^{certain degrees of} heat &
moisture. Their most productive sources ~~of~~ are
inoffensive when dry, or covered with water. ✓
3 They are conveyed to ^a considerable distance by
the winds. In some instances to two miles.
M. Lempriere mentions some facts which
prove they are carried miles in the Islands
of Jamaica.

4 They are most active ⁱⁿ after the setting ^{evening, and} of the sun,



in the morning. They are lost in middle of the day, and night.

5 They spread more in ^{& cool} Damps, than in dry weather, & warm weather.

high situations. see vol: 5 p: 105

6 ~~They are~~ Their activity is destroyed by cold. ^{They are} When it ~~is~~ produces ice. It is likened to ~~be~~ suspended by heavy rains, & destroyed by them when they are succeeded by weather so cool, as not to admit of exhalation.

7 They are frequently accompanied by with an offensive ^{odor} ~~smell~~, but they exist sometimes in a very deleterious form, without being perceived by the sense of smelling.

8 They have hitherto eluded the inquiries of the Chemists. Some late physicians have ^{been} misled by their ^{inability to discover them in} ~~extreme subtlety~~, as to the ^{so far} ~~air~~ by means of chemical agents deny their action in producing vicious diseases. As well might they ^{deny the} existence of odors in the air.

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become they are alike ^{for} ~~improvable~~ they like
 are alike ^{resist the} ~~improvable~~ to the best of the ^{experi-}
 mental experiments.

✓ I ~~cannot~~ ^{think} It has likewise been reported that
 they do not produce the diseases that have been
 mentioned ~~because~~, they do not act uniformly,
 & because some of the filthiest cities in Europe are
 exempted from them, and because they do not
 act uniformly in our own Country. In an-
 swering the first of these objections, it will be
 proper to remark that filth & dirt are two
 distinct things. The Streets of a city may be very
 dirty, and ~~not~~ ^{not} filthy that is, covered with ^{off-}
^{and composed of inoffensive} ~~filthy~~ clay, or sand, or lime, & the at the same
 time be free from ^{those} ~~the~~ filthy veg: & animal
 matters which by putrefaction contaminate
 the air. This I believe is the case with Lisbon, &
~~some~~ some of the cities in Italy. To the

✓ a similar, ~~and~~ want of uniformity
appears in the ~~production~~ of operations of our
climate appears in the line, & equality of
grain
our fruits & vegetables of all kinds

The want of Uniformity in
 second objection I reply that ~~those~~ the exhalations
 of our Country in producing diseases, depends
 upon ~~many circumstances~~ this being combined
 with more or less heat, or moisture, and perhaps
 upon the disposition of the body from the
 elements of the season. But ^{different} ~~different~~ currents
 of winds, or the total absence of wind - ^{upon} ~~but~~ the
 Disproportion of ^{temperature of} the Air in the Day & Night - upon
 the Quantity of dew - upon the early or late
 appearance of warm or cold weather, all of
 which vary in different years. The ^{more} ~~more~~ fre-
 -quent prevalence of the malignant bilious
 fever in our Country, than in former years,
~~may be accounted for~~ upon requires a specific
 explanation. The ~~fever~~ from the ^{longer} ~~longer~~ more
 encroachment which the heat of Summer has
 made upon the ~~cold~~ Autumnal months a
 longer period is given for ^{the generation of} ~~an greater accumulation~~
 -tion of

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~~putrefactions~~ of putrid exhalations, and possibly for their
 greater concentration and activity. But the ^{late} increase ⁱⁿ of
 malignity of our ~~bilious~~ bilious ~~from~~ Disease must be
 resolved chiefly into ^{a more active state} ~~a change~~ in the atmosphere
 from causes that they are as yet unknown to
 us. ~~To the existence of these~~ It has ^{long} been observed
~~ever since the days of Hippocrates~~, and has been
 acknowledged by every physician of ^{all Ages &} ~~countries~~
 countries. It is sometimes general over a whole
 nation, again it is confined to cities ^{Districts} ~~provinces & states~~.
 It is ~~transient~~ sometimes permanent, ~~again~~
 but it is more frequently transient in its effects.
 It discovers itself not only in a greater excitement
 of the system in diseases, but in many changes which
 take place in the animal & vegetable creation. Even
 fishes ~~of fresh water~~ feel its influence in their watery
 portions of the globe. Of this, many proofs are to be
 met with in the histories of pestilential diseases.
 But ~~raising all this~~ ^{this solution of the}
 want of uniform connection between the summer



& Autumnal Disease of our country, & of the most
~~appearance of the bilious yellow fever~~ ^{bad water & diet - fruit} ~~is not~~
 and the putrid exhalations ^{all} ~~be~~ ^{not} admitted, I will
 add a fact that ~~establish this~~ ^{cannot be denied}
 in favor of ~~this~~ its being derived exclusively
 from ~~in all its forms~~ from that source only,
 and that is - there never was - while I admit
 the ~~least of an uniform~~ that putrid exhalations
 do not from the causes that have been admitted
 uniformly, or in successive years produce ^{as} bilious
 & malignant diseases. I will add that they ~~do~~ ^{have}
~~do not exist~~ ~~never~~ it never has existed in
 any form ^{independently of} ~~without~~ them. ~~Learned~~ ^{From the}
 ✓ plagues of Athens, and the intermittents of
 Campania, down to the malignant fever of
 Philadelphia, and the intermittents of the shores
 of Skutumpah, every in the year 1803, every form
 of Summer & Autumnal disease has existed
 only in the vicinity of ^{noxious} ~~putrid~~ exhalations. It is

✓ of these fevers ~~the~~ native sympathies in
in p 21. & p 22 D

✓ all the two ~~parts~~ of Summer & Autumnal
Disease originate from putrid exhalations. I
have mentioned all their sources, & the laws
which govern them formerly. we

+ first mention all its sources from
vol. iv also the 11 forms of autumnal fever
external & internal.

true these exhalations have not ~~only~~ always been
 derived from putrid vegetable & animal matters. ~~then~~
~~off~~ Equally baneful or sickly exhalations have
 sprung from the bowels of the earth After an Earth-
 quake, and from ^{fires} ~~calves~~ in mountains, & from
 wells, and pools of water have now often produced
~~epidemic~~ epidemic fevers, but these may be con-
 sidered as ^{of an accidental or} sporadic nature. They ~~have not~~
 appear but rarely, and seldom return in the
 same country. They are like the cases of malignant
 fever which are produced by a poisonous dose of opium
 or Corrosive Sublimate compared with those which
 arise from the ordinary exhalations of our docks
 and cellars. Nor shall I here except the occasional
~~few~~ epidemics which have arisen from scanty, or
 unwholesome diet in ^{different ages &} ~~foreign~~ foreign countries.
 They occur but rarely, & ~~for~~ should constitute no
 Objections to Hygiene to the truth of the general re-
 mark which has been delivered. During the prevalence
 V⁺ we proceed in the 3rd place to ~~next~~ enumerate

V For this purpose it will be necessary to mention
the signs of their presence in the atmosphere when
they are disposed to produce the highest grade of
malignant fever. ~~These signs are~~ I shall mention
such signs as are external, & ^{by} such as
appear in the human body. The ^{external} signs of a
pestilential ~~atmosphere~~ ^{Epidemic} appear

the means of obviating the effects of these exhalations
upon the human body. ~~upon the human body.~~ The first step for this

purpose is to ascertain the approach of I shall
begin more especially when they are accompanied
with that state of the atmosphere which disposes
them to produce the malignant form of
bilious fever. ~~first necessary to mention its pre-
cursors~~ ~~external, & if they are in the body.~~

~~these~~ many attempts have been made
to discover by external signs the approach of the
existence of
probilential diseases, in order to guard the body
against them. Diemerbroek mentions that ~~greater~~ ^{were}
frequent sudden disappearance of birds that are
common at the season of their flight, & the greater
frequency of abortions preceded the great plagues
which he ~~also~~ describes at Mincever. The approach
of the malignant bilious fever in ^{this city has} ~~our country~~
been indicated in different years by the following
signs. In the unusual violence in the diseases of
the previous year or season. The intermittents



of 1791. & 1792 ^{appeared so inflammatory as} ~~did not yield as formerly to~~
the type, as to require bleeding, to prepare them
for the use of the Bark, & the ^{elaborate} purgatives of most
of the Springs which preceded our malignant
fevers have called for more depleting remedies
than ~~the same diseases~~ in other years, to cure
them. Nature is uniform in these preliminary
signs of ~~for~~ greater force in the diseases which
precede pestilential fevers in other countries.
They occurred according to Sydenham in the
fever which preceded the great plague in
London in 1665. They were observed likewise in
a fever which I of this, as there are many
hundred instances in the records of medicine.
Even Dr Christolm whose ideas of pestilence
exclude ^{its} ~~all~~ connection with ~~external~~ the
state of the Atmosphere, has ~~now~~ added his
testimony to the evidence of Ages in favor of
this remark, & thereby refuted his ^{own} ~~late~~ doctrine
of its contagious & importable nature. He

V. total suspension of diseases of all kinds just
before the appearance of a malignant epidemic.
~~The months of~~ ~~in 17~~ ~~years~~

Unusual healthiness in the months of
preceded the furious fever of

I have ascribed this to the ^{preternatural} stimulus of the
atmosphere ~~impregnated with~~ ~~poison~~ overcoming
the action of weak diseases.

It would seem as if ^{we vol. 3. p. 180 facts from Diamant} great & mortal epidemics
had like the planets, ^{that} satellites revolving round
them. For they are not only preceded, but accom-
panied & followed by diseases which appear to
derive reflect back upon them some of their
violence & malignity. But there is sometimes an
exception to this remark, for we ^{now & then} ~~sometimes~~ see a total ~~of~~
in above V

mentions its being preceded by a violent breeze in the morning, & accompanied by a small fog equally malignant with itself in ^{another} the Island. ~~of~~. It is ² sometimes there is a

2 The malignant form of bilious fever has been preceded by a general pallor in the complexion of our citizens. This has been noticed by strangers. It occurs in other countries subject to the same fever.

2 They appear in ~~3 It has been preceded & accompanied by winds~~

from unusual quarters, or by unusual calms. The winds have blown for more constantly from the SE during our pestilential years than in former years.

3 Fumigations or mist in the air. Dr Wilson, who says this generally precedes a sickly season in the Delaware State. ~~The same~~ a sickly calm attended the epidemic of 1793 in Philadelphia. A similar state of the air is described by Dr Baynard during the last plague in London. His words are "A general calm & serenity of weather, as if wind & rain had been banished from the realm. I could not observe the least breath of air to stir a pane, or weather cock. Fires with great difficulty were made to burn, & the very birds would pant for breath more."

v Diemerbroeck's facts - see A. B. Rose Parry's too
p. 3 of fever in 1798.
predict as of Comets & eclipses
finer.

22
especially ~~kites & crows~~ who were observed to
fly more heavily than at other times."

They appear in
~~It has been preceded~~, by uncommon sickness
 & mortality among many birds & beasts more
 especially wild pigeons & cats.
 The ~~the~~ has disappeared from our

especially wild pigeons & cats.
The common house fly has disappeared from our
city - ~~uncommon insects of none appeared~~ ~~in cities,~~
~~and~~ ^{in cities} mosquitoes have been multiplied, & some
new insects have appeared just before, or during
the malignant epidemics.

the prevalence of
of ~~the~~ ~~some~~ of certain trees have emitted an
unusual smell, and of others ^{the leaves of others have} fallen prematurely,
and the ~~fruits~~ ~~fruits~~ fruits have been left
in fire, or of an inferior quality in the summer
previous to several of our malignant autumnal

fevers. — Dr Oliver has taken notice of a ~~change from~~
to the ~~po~~ ^{point} Dr Oliver has taken notice of a change from
the ~~white~~ ^{point} to a dark color in upon the boats in the
harbours of Boston being changed to a dark color
during the prevalence of the malignant bilious
fever in Boston in the year
7 The

^{Howeats}
V fatigue from light exertions -- hands when rubbed
emitting smell like ^H sulphur - some odour of burning
from wine in the mouth -

Attest

23 ~~in the~~ ~~as~~

The signs of the presence of exhalations ~~in the~~
in the human body
~~human body~~ which produce a yellow fever are
as follows.

old, or chronic dis-

as follows.

1 A sudden cessation of an old, or chronic disease, or a conversion of a periodical into a continual disease. It ~~is~~ ^{is} ~~gentle~~ ^{is} of this third kind.

Philad^a in 4^o year 1793.

2 The breaking out of old sores, or ^{of fresh} eruptions upon
different parts of the body. The prickly heat &
the nettle rash are the effects of the ac.

I have observed
3, ^{or unusual} head ache, ~~or~~ a decay of appetite, ~~or~~ ^{or increased} secretion
of viscerae, a diminished, or increased secretion
of urine, constant sweats, ^{or sometimes of a pained nature} or a dry skin, wake-
fulness, or a disposition to early ^{or} prostration
Sleep - unusually frequent & ^{or} deep
a paler color in the face - and, or yellow eye - ^{or}
~~have all been observed~~ in persons who were
exposed to the exhalation of our annual
epidemics, and who did were not confined, &
who could not believe they were predisposed by
any of those symptoms to the disease.

v The first where flight is practicable it
should be resorted to in every case. The
Sights of German town & Darby have for many
years afforded a secure retreat to the citizens of
Philadelphia from their late Annual Epidemic.
~~From the western parts of the city~~ In sailing
place are infected by foul air matted air, cold,
to be taken that to expose the body to great heat,
or fatigue, for ~~the~~ where the system is tainted
arouses it into action
the least exciting cause often renders flight in-
-effectual by inducing the disease, ~~and~~ [&] ~~then~~
-times death, where safety was sought. But where
flight is impracticable, or inconvenient as
safety should be sought for in such means as
reduce the ~~adverse~~ the tone & strength of the system.
These are I, depleting Remedies nature. These often

The means of preventing the Summer, & autumnal disease of our country come next under our consideration. I shall ^{first} mention ^{first} such as have been most effectual in guarding against its most malignant form, and afterward, take notice of such as are proper ^{I shall speak of the means proper for individuals.} Then of 2 in its milder grades. ✓

means to defend whole communities.

~~The diet should be consist chiefly~~ ✓
 I of the means proper for individuals. ✓

Q The System when impregnated with mias:

mata is under the influence of a preternatural stimulus, and from the suppression of customary exertions is often in a plethoric state. The prophylactic remedies should therefore be such as are calculated to lessen this stimulus, & to obviate the preternatural fulness of the bloodvessels.

~~They are the first remedy for this purpose~~
 1. A spare diet, ~~conformed~~ accommodated to the greater or less degree exposure of the body to the action of miasmata & to the greater or less degrees of labor, or exercise which are taken. ~~for the~~

who live wholly upon vegetables,
V The Bramins escape the malignant fever
of India, while the Europeans who eat
animal food die in regiments around them.
People in Virginia who live near gardens ~~at plentifully of fruit~~
~~the full negroes of South Carolina owe their~~
exemption from the bilious fevers of that state
to the ~~the~~ same cause while their masters often
die, or suffer with it. A low diet acts in two
ways. ~~It~~ ^{not only} opens the quantity of blood, & the force
of circulation upon the blood vessels, but it ^{induces} ~~imparts~~
also such a debility upon the system, as disposes
it to vibrate more readily under the impression of
the anigomata - thus the willow ~~stands before~~
~~a~~ ^{before a blast of} wind, while the embanking oak is torn up
by the roots. It is from this ~~influence of~~ ^{increasing} vibrability
in the system of women in the heat Indies, ~~that~~
~~acquired by their temperance~~ that they escape the
endemic fever of that the Islands. The

year 1793 I lived for nearly 8 months wholly upon
~~with~~ vegetables & coffee with a small quantity of
 milk & vegetables, but I ~~do~~ for cases of great ex-
 -posure to an ~~injure~~ infected atmosphere ~~the~~
 with but little exercise, the diet should be
 simple in its quality, & small in its quantity.
 a little salted ^{also a little cayenne pepper} meat when taken with ~~with~~
~~vegetables, prevents the stomach from~~ ~~a small~~
~~quantity of the cayenne pepper prevents an~~
 undue languor of the stomach from ^a want
 of its customary elements. Where the body
 is ~~but~~ but little exposed to foul air, ~~the~~ and
 much exercise taken, Broths, & a little
 wine, or small liquors may be used with
 the fruits & garden vegetables of the season with
 advantage. ~~The diet~~ The change from a full
 to a low diet should be made gradually. ^{when}
 made suddenly it ~~increases the predisposition~~ ^{increases the} ~~to disease by accumulating the excitability of~~

more than protestants from it in plague. Howard. also in
1793.

& also by fires. ~~etc~~

mine all

the system. Long feeling to be avoided. ~~in hot suff~~
 a 2. depleting remedy is ^{to be used in the beginning} gently ~~as a~~ medicine.
 2. ~~generally~~ ~~as a~~ ~~medicine~~ ~~have been found~~

effectual in many instances in preserving the
 body from ~~the~~ an attack of malignant disease.

Hundreds in Philadelphia owed their lives to
 the occasional use of a few grains of Calomel,
 pills, a few grains of Rhubarb ~~as~~ or a Spoonful

of Castor Oil during the Insurrection of 1793

a 3. ~~the~~ ~~insurrection~~ ~~of~~ ~~the~~ ~~blood~~ ~~is~~ ~~and~~ ~~the~~ ~~preventing~~
 depleting preventive consists in
~~is~~ ~~is~~ ~~the~~ ~~may~~ ~~be~~ ~~observed~~ ~~by~~ ~~keeping~~ ~~up~~ ~~a~~ ~~con-~~
 perspiration or rather a moderate degree
 of constant perspiration's discharge from the ~~body~~

of sweat by means of warm cloathing, and
 hot cloaths. The ^{excretion} discharge which takes place by

the skin is a discharge of the first viscosity. I

never knew an instance of a person living at

ached by our malignant fever in whom ^{this discharge} it

was constant, and equally diffused all over

the body. Its effects have been equally salutary

in preventing the plague. So well known

v upon the System as disposes it to vibrate
more readily under the impression of the
miasmata. Thus the willow rises after
bowing before a blast of Wind, while the un-
bending Oak is torn up by the roots. It is
from this vibrability of the Systems of women
in the West Indies, that they escape the endemic
fevers of the Islands.

is this fact, that Mr² Volney tells us in his treatise
 on the plague, that the common salutation during
 the prevalence of the plague, is - "How do
 you - But "do you sweat freely"?

A 4th of depleting is bloodletting. Dr Mitchell in
 a manuscript Acc^t of the yellow fever which pre-
 vailed in Virginia in the year informs us that
 it was often prevented in persons who were predispo-
 sed to it by the loss of a few ounces of blood. Then
 among the physicians

~~The French too~~ It was formerly a practice in

During the ~~French~~ ^{Spanish} to bleed their troops as soon
 as they arrived from France, ~~and~~ by which means
 they were preserved from the malignant disease
 of the Island.

These remedies whether used separately, or to-
 gether induce such an artificial debility ~~as to~~
~~be fatal to~~

II: Class of preventives of malignant fever
 are such as ^{obviate} ~~prevent~~ the ^{internal} action of virus mata-
 rial by exciting a ^{general or partial} ~~counter~~ action in the

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the external surface of the body. 28

~~System~~. These are

~~There~~

1 The Warm Bath. I have known this grateful remedy used with success in our city. It serves the double purpose of keeping the pores open by keeping the skin clean, as well as ~~keeping the~~ ^{the defending the}

~~determining to the~~ ^{What are called the} vital organs from disease by ~~keeping~~ ^{preventing} inviting its predisposing cause to the ~~top surface~~ ^{the} external surface of the body.

2nd Washing the body with salt water every morning & evening ~~has~~ ^{has} had the same salutary effect.

~~This salt~~ in the West India Islands. ~~of salt~~

~~is used~~ ^{The application of oil to the body}

3 ~~has been used with success in~~ ^{anointing the body with} ~~applied to the body among the natives of producing a~~ ^{centrifugal} ~~determinations of the fluids.~~

The natives of Africa use it with advantage during their sickly seasons. It has lately been ^{used} great ~~effect~~ ^{in the preventing} stage of the plague. Its efficacy was suggested first by ~~an~~ oil man

2⁴ ^{those} Dr Baynard has left it upon record that persons who
lived in ~~water~~ water mills, also water men - Bargesmen
& fishermen ^{or in dabbling in cold water} who were employed on the river were rarely infected
by the plague of 1665, and that but two persons died on
London Bridge. ~~with it~~ ^{The reason is narrow given}
~~by the Dr for the salutary effects of the water~~ ^{supposed that the water in all these cases}
~~notice. Its only acts in 1665: 224~~ ^{The Abolition}
~~enjoined by the Jewish & Mahomed religions,~~ ^{seize the}
~~same purpose. Abolition says people who dabble much in~~
~~water escape it.~~ ^{water escape it.} ~~Clara bing in business to be advised.~~

having died ~~during~~ of it during four years in
 which time 100,000 perished with it in Egypt
 alone. Shivers says - the Buter men are equally ^{in escaping it.} fortunate.

4 The Cold Bath, or Cold water applied to the ~~whole~~
 external surface of the body. Ulloa tells us
 in his travels through Cuba, that the Spaniards
 make it a practice when partially wetted by the
 rain, ^{to} plunge themselves into the first stream
 of water they meet with afterwards, ~~with~~ by
 which means they avoid taking the fever of the
 Island. ~~The~~ ^{the} ~~African~~ ^{tribes} ~~have been~~ ^{too}

~~informed~~ The water carriers at Cairo whose
 cloths, ~~as~~ ^{as} ~~skin~~ ^{are} always wet, ~~are~~ ^{are}
~~generally~~ ^{as} ~~under~~ ^{as} ~~in~~ ^{as} ~~constant~~ ^{as} Volney says

uniformly escape the plague. Dr Chrischolen
 informs us that those negroes, who go naked,
 and are thereby ^{less disposed to avoid} ~~exposed~~ ^{to} the rain, & ~~water~~
 the water, ~~of the~~ are never affected with the fever
 of that country. Does the ~~hot~~ cold water in
 these Cases act only by producing reaction in
 the system, & thereby fortify it against the

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impression of ~~these~~ pestilential miasmata?
 or does the water ~~destroy them~~ prevent their
 noxious effects by simply washing them from
 the body — or does it destroy their activity by
 mixture, or dilution? — Let ~~these~~ future
 observations & experiments answer these
 questions.

5 Issues, setons & ~~blisters~~ ^{belong to} blisters have been
 this class of preventives of malignant fever. ^{in 1665}
^{I have said vol. 5 p. 124} Hodges ~~defected~~ was preserved from the plague by
 a constant discharge from a ~~dissect~~ an issue in
 his leg. Another person who owed his preservation
 to the same means, used to say he could always
 tell when ~~he was with~~ in the army of the company
 he happened to meet, ^{he} was infected with the seeds
 of the plague by feeling from their breath, ^{a breath}
 -ning pain in his ~~if~~ artificial fore. Dr Gallaher
 ascribed his escape from the Epidemic of 1799
 to a ^{suppurative} blister ^{which he applied to} ~~he kept open~~ his arm for
 that purpose. Dr ~~Barlow~~ ^{Barlow} ~~was~~ ^{favoured me} ~~he~~ ^{Dr}

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with the sight of letter from Dr James Lyons,
dated Jan 12. 1808. ^{believed to be}
in which he says, that Dr Beach, had been
protected from ~~the~~ bilious fever by an letter
in his ~~side~~ ~~what the doctor had~~ ~~in addition~~
~~to this fact he adds~~ he adds further, that Dr
Beach had been called to attend ^{the} ~~the~~ laborers at
^{Oranadaga} ^{in the State of New York}
the salt spring, ~~and that~~ 98 of whom ^{put of 100} had
the bilious fever. Of the two who escaped it,
one had a sore leg, the other a ^{scald head} ~~running sore~~.
~~from her~~ The discharge from these sores, as
well as from the doctor's issue was more co-
pious during the prevalence of the fever, than
they had been at any other time. —

a 111 Class of preventives of malignant fever
are such as excite a general action, either more
powerful, or of a ^{than} ~~contrary nature~~ to that which
the miasmata are disposed to create in the
system, or of a contrary nature.

These are 1: ~~wine and stout~~ ^{garlic}
~~onions & garlic~~.
~~There was not a single person affected by~~

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the malignant fever in 1793 who used
 of these vegetables in his diet. The escape of
 several thousand French citizens who com-
 posed part of the inhabitants of our city
 in that year, was ascribed in part to their
 liberal use of these ~~article~~ condiments in
 their food. The Jews, it has been often been
 said, have owed their preservation to it from
 the plagues of Europe. It is probable that
^{such as onions &c were introduced there}
~~general use of them Egypt was in~~
~~general use~~ into Egypt as the means of ob-
 viating the plagues of that country. I have
 been at a loss to know why the Author of nature
 who has endowed these vegetables with so many
 excellent qualities for diet & medicine, should
 have accompanied them with such a disagreeable
 smell. Perhaps the reason was kindly to force
 it into universal use, for it is remarkable,
^{that} ~~that~~ smell of it is imperceptible to those who

✓ The air extracted from fermenting wines,
during a plentiful vintage once checked the
ravages of a plague in Germany - taught
by Salammun ~~business~~ ^{taken so as gently to}
2 & small doses of Colicel ~~was in several~~
affect the ^{breath or gums} ~~mouth~~, have in several instances
prevented attacks of an Epidemic malign^t fever. It
preserved the crew of a Russian ship at Plymouth
in the year 1771 from a fever generated by filth in
her hold. In a letter which I rec^d from Cap^t Sutton
in the year 1797, he informed me that at Batavia
a old & respectable merchant had advised him he had
been ^{in good health} ~~prejudiced by it~~ ^{above 30 years} in
~~the East Indies~~ ^{at Batavia}, a place where according to his geo. Hantbre
half the men ~~cross~~ die every year of malignant fever.

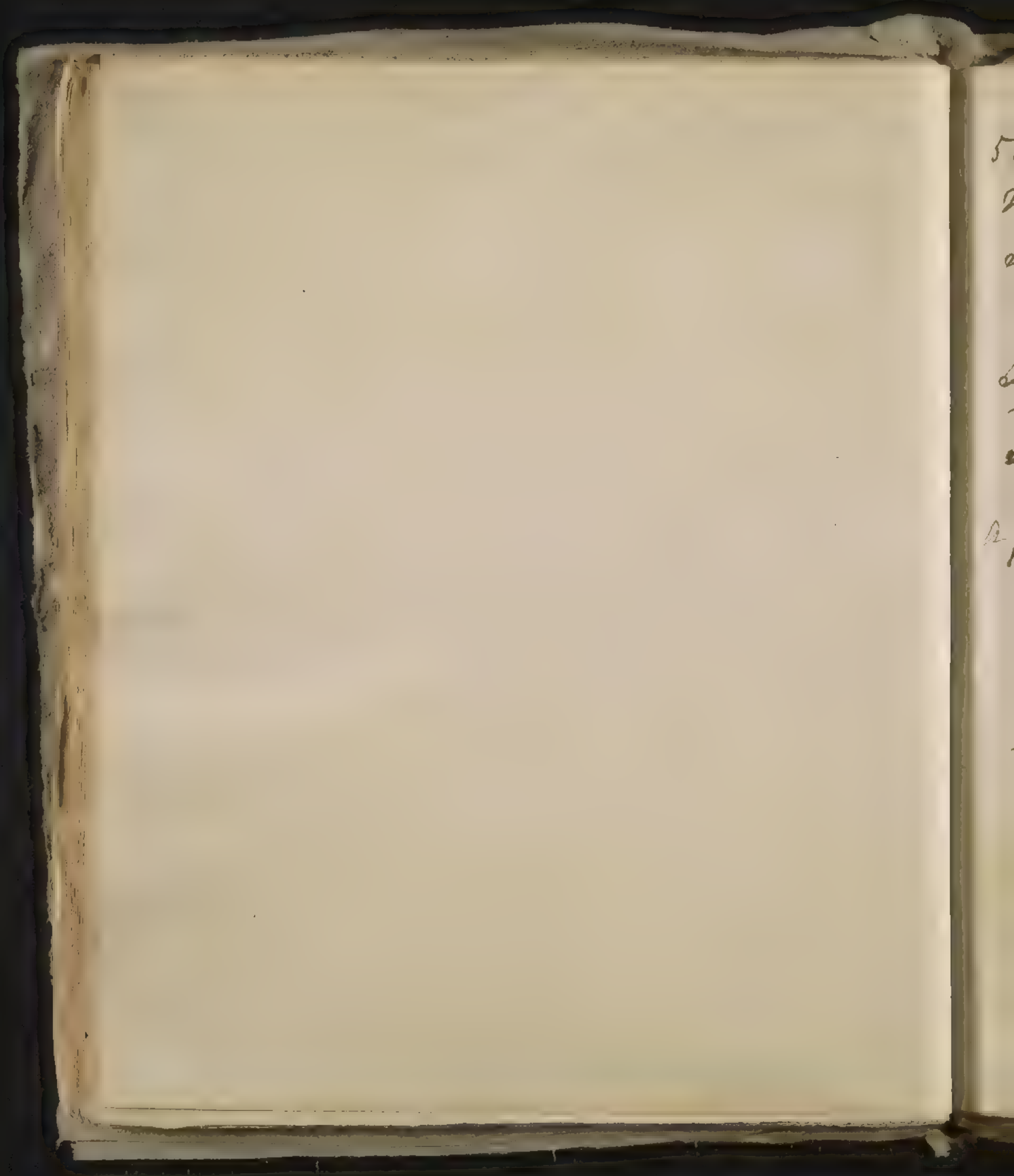
use them. ~~And~~ ⁹³ ~~this had it~~ $\neq 2^{\text{nd}}$

[2 Certain ~~things~~ ^{matters} which act powerful upon the
 sense of smelling have been found ~~to~~ belong to
 this class of preventives of malignant fever. In
 Bruce & DeClash ascribe great virtues to the
 smoke of Coal & wood for this purpose.
 The smell of tar defended the shipwrights from
 the plague of 1665 in London. The Island of Sinate
 says Mr Boyle ~~was healthy~~ ^{close} was celebrated for
 its healthiness before the trees which produced the
 odor exhaled a constant odor through it, were
 destroyed. Even fetid odors have ~~produced~~ ^{acted as}
 the same salutary effect. of this Aristotle says
 relates a remarkable fact. He says a plague
 was once checked by in a city of Italy by killing
 a large number of
 all the cats & dogs, & suffering them to exhal
 their ~~putrid~~ ^{factor} in the ~~that~~ ^{that}. I have said
 how do they all act? 1. 2. 3.
~~these~~ ^{sometimes}

3 Spirits of wine have ~~often~~ been resorted to as
 preventives of pestilence, but I believe they have
~~forasaid~~ ^{generally} been ~~beneficial~~ ^{more}
 increased, instead of lessening the predisposition

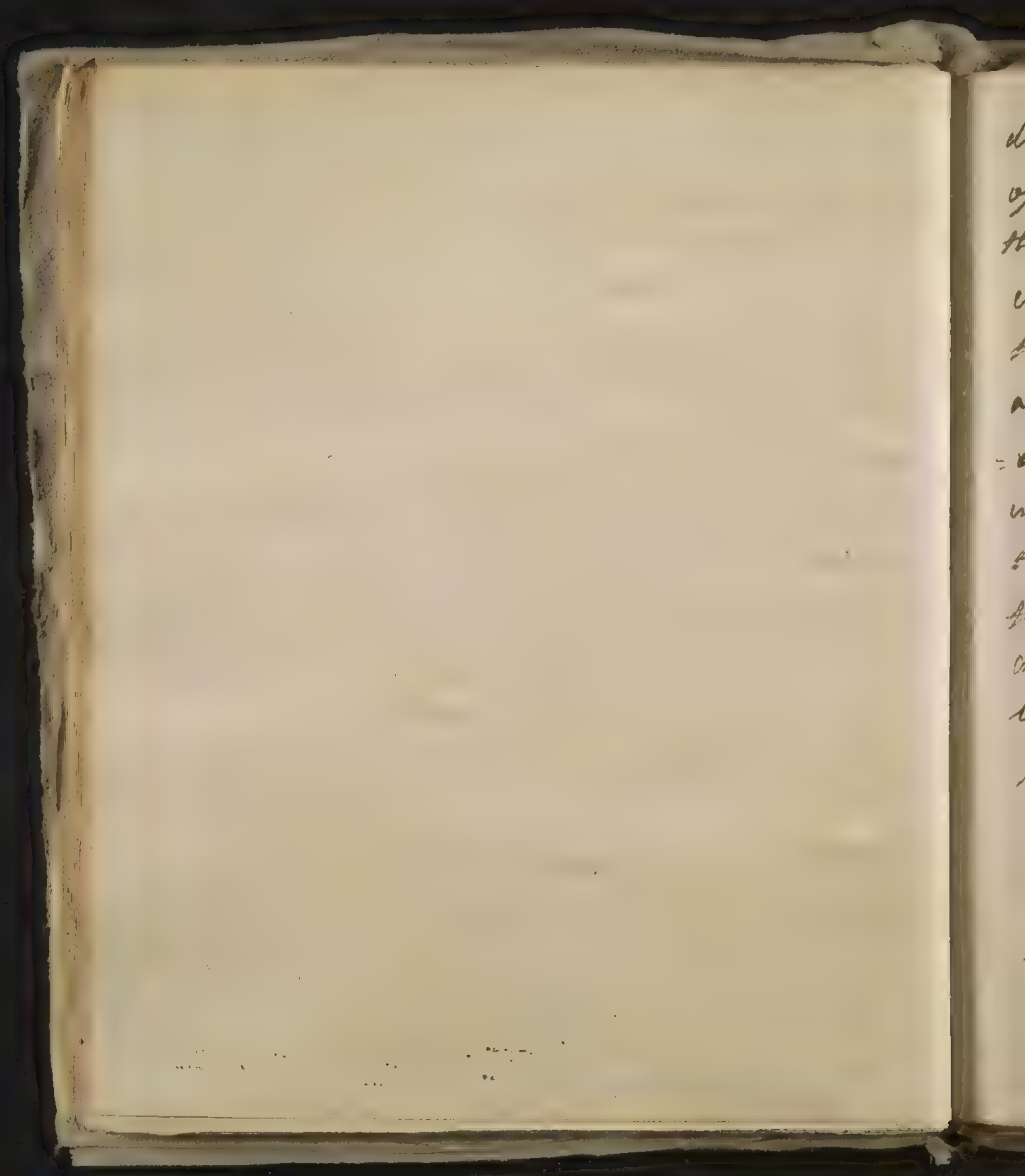


of the body to an Attack of the disease. by crea-
~~ting a~~ ^{they are} ~~to be~~ ^{effectual}, ~~this stimulus~~ ^{ph?}
~~be constant, and to only when they produce~~
 constant intoxication, for disease & death
 are the certain consequences of that ^{state of} debility
 weakness & excitability which succeed ~~in~~ the
~~constant~~ ^{excessive} & intemperate use of
 those liquors. I have known three instances
 of persons who ~~to~~ ^{two} ~~were~~ ^{habitual} Drunkards
 surviving ~~one~~ of our most fatal Epidemics
 who ~~are~~ ^{constantly} ~~exposed to this~~ but
 neither of them was sober a single hour
 during the six weeks they prevailed in our
 city. nor ~~in any of the ways~~ ^{in which} it is used,
 48 Tobacco has ~~sometimes~~ ^{been} ~~used~~ ^{found}
 to be any more useful than Adulterated spirits derived
 in preventing malignant disease. Mr Howard
 says no benefit was derived from it in the plague,
 and many hundred of our citizens can bear
 witness of its ineffectual use in guarding against
 the yellow fever malignant Epidemics of our
 city.



5th Camphor ~~by~~ suspended in a bag round the neck, and Rags wetted with vinegar ^{applied frequently to the nose} afforded no ~~some~~ safety from the malignant fever of 1793 ~~than~~ tobacco. It is probable they ~~exp~~ increased the predisposition to it by ~~entangling & conveying~~ ^{affording a vehicle for} more ~~of the miasmata~~ ^{by their} volatile particles to the ~~of the miasmata~~ ^{morbid} ~~which produced the disease.~~ ^{as they in some} instances increased the predisposition to the disease.

Class IV Among the preventives of malignant fever, certain substances have been recommended w^{ch} it is said destroy the miasmata which produce by entering into mixture with them. Two persons who ~~took a table spoonful of sweet oil~~ were constantly exposed to the fever of 1798 ~~escaped it~~ took each a table spoonful of sweet oil ^{every morning} ~~to which they assiduously~~ They both escaped the fever. If Did the oil in this case act by destroying the miasmata in the stomach ~~on which they appear to chemically~~ or did it defend the stomach mechanical from their action? Or did it prevent the



disease only by keeping the wounds gently
 open? It is certain the fat of pork protects
 the ~~wounds~~ ~~of the men who~~
 work in the lead mines in Britain from
 the deleterious effects ^{which} of the fumes of lead, ~~that metal~~ &
 are so apt to bring upon the stomach above
 - also and it is ~~not~~ ^{is} ~~not~~ ^{is} a poisoned arrow
 will not injure a hog, if it be arrested by
 the fat which lines his sides ~~of~~ ^{of Remond's fat} ~~and~~ ^{the} ~~that~~ ^{that} ~~that~~ ^{that}
 that sweet Oil I said for nearly that ~~that~~ ^{that}
 application of sweet Oil to the body has lately
 become a popular ^{mode of preventing} remedy for the Asiatic
 plague, & that many thousand persons
 who ~~dealt~~ ^{handled} it as an article of merchandise,
 had escaped that disease during four years of
 its prevalence in Egypt. ~~It~~ ^{It} Possibly the efflu-
 -via emitted by the Oil, by mixing with the
 miasmata may have aided its good effects
 in preventing the disease.
 2 The vapor which issues from fresh earth

V Lungs of hares in sick rooms in
prison of 1797. see page 121 ver. 5.

Bathing in salt water. mor. Bantus

Smell of the goat - Chrysitis - Sal
Am: 2. 1897

Long interval between onset
& prodig^{al} causes of an attack.

has been supposed ~~to~~ destroy the virus which produces malignant fever by entering into mixture with it. ^{subst} Many of the persons who were employed in cleaning removing the dirt from the Streets of Philad^a also in digging bellies & graves in the year 1793 escaped the fever of that year. In the new Settlements of our Country it is said the prison of ~~and~~ the Rattle snake is ^{deprived} ~~discovered~~ of its deadly effects upon the body by ~~thrusting~~ ^{thrusting} the wounded limb into a hole in the fresh earth. The fable of Anteus is said to who rose ~~more~~ ^{more} vigorous with renewed strength from the ground as often after an too falls, ~~was~~ was probably intended to signify among other things, the ^{heating} salutary virtues contained in the ~~an~~ effluvia which issues from ~~the~~ ^{from} ~~the~~ ^{of earth} clods ~~which~~ which lie immediately below its surface. V

~~And~~ In Addition to all the ~~poor~~ modes of obviating an attack of malignant fever when exposed to them it remains that I mention, the avoiding V all its exciting causes. ~~There~~ are great heat,

has been said of the effects of fear
much ~~of fear~~. The absence of it is no protec-
tion, ~~no more than it is from a cannon ball in~~
or the city of Philad^a would not continue even
at this day to deplore the loss of her ^{intrepid} White ^{or} her
Pennytons ^{& her Coopers} and many others of her
citizens who ^{have fallen in the successive epidemics} ~~were strangers to fear, & who~~
of our city.

~~I have said nothing of avoiding old intercourse~~

+ ^{large} families ^{ch} ~~which~~ are affected by the
fever, ~~the~~ a maid is often the only person
who dies th ~~owing to her being mid?~~ by the epidemic
debility ^{& annual crises} ~~by the loss of attending the~~ to which
~~she is exposed in~~ ^{which is obliged to perform} is a more
malignant attack of the disease than those
who ~~are~~ branches of ^{the} family who survive
her.

fatigue more especially from 38
and cold, labor or exercise not of an habitual
abandonment of former employment.
nature. The miasmata which produce ma-

lignant fevers often sleep exist in an inoffensive
latent state in the body for weeks or months, and
pass out of it without doing any harm. Unlike
the seeds of contagious diseases, they ^{generally} require,

with but few exceptions, an exciting cause
to rouse them into action. These causes are

1 heat, 2 cold, 3 fatigue more especially from un-

usual labor or exercise - 4 fasting - + 5 intemperance in

eating & drinking, and 6 all violent emotions &

passions of the mind. The degree of caution with

which these exciting causes should be avoided, sh^d

be regulated by the quantity, and activity of the

miasmata which ^{which dispose themselves in the} ~~have been~~ ^{are} ~~mentioned~~ ^{in the}

body. ~~There are~~ In epidemics of a moderate

moderate degree of malignity, but ~~little~~ ^{a less rapid} change

should will be necessary in the manner of
living, than in those which are malignant
in the highest degree. In the latter, no new

V In a voice so loud from the waters of St Louis, to
 I would speak ~~as that the~~ as to be heard by the whole
 the shores of the Mississippi, - citizens of ~~the whole~~
~~United States~~ I would say ~~not~~ Beware of contagion
 - for the malignancy of our country are not propagated by
 contagion - nor shd I say, Beware of miasmatic exhalations
 where the duties of human or consequently requiring:
 attendance upon the sick - But Beware of ~~the~~ exiting
 causes ~~that~~ ^{we have been} ~~the~~ ^{causes} during the prevalence of
 of our human miasmatic disease.

I have said nothing of avoiding all inter-
 course with the sick in order to prevent the
 disease, because ~~it is~~ it is not propagated by
 contagion. In places not infected by miasmatic at-
 mosphere ~~it may~~ the most laborious offices of
 humanity may be performed to the sick, & in
 places where so, the sick may be visited, & even
 attended with safety by y^r friends, provided they
 avoid the exciting causes of the disease before mentioned.

Aliment should be tested, and even customary
 Acts of labor & business should be suspended.
 The inhabitants of Constantinople & ~~other~~ ^{Lyons}
~~erroneously~~ ^{manfully} suppose they escape the contagion of
 the plague by shutting themselves up in their
 houses during ~~the time of~~ its prevalence, but
 they owe their safety wholly to this being re-
 moved beyond by rest, & a total exemption
 from care & business from all its exciting
 causes. Confinement is more certain ⁱⁿ ~~wholly~~ ^{only}
 effects when persons occupy the upper stories
 of their houses. ~~only~~. The inhabitants of St.
 Lucia Dr. Christopher says by this means often
 escape the ^{febrile} yellow fever of that Island. It has been
 some such is the difference in the ~~poor~~ healthiness
 of the air ~~in the~~ between the upper & lower of
 the stories of a house, that birds live in the
 former, & die in the latter, during the prevalence
 of a plague in the Eastern Countries. June 20
 much impressed with a sense of the ^{general} necessity of the
 cooperation of exciting causes to produce the malignant
 fever of our country that if

Or in other words by living above it. I
advise ~~ending~~ ^{in order to offer them quietly to} the storm of malignant
fevers, ~~and Antismal fevers~~ ^{only over the}
system. mild Antismal fevers should be
opposed by means which enable the system
to strike its roots deeper into the earth, &
thus to prevent its being ~~ending~~ ^{being torn}
up ~~the roots~~ ^{by} ~~ending~~ ^{ending} before them. The
~~Remedies~~ ^{preparatives} for this purpose should be -

* Dr Blane says the soldiers in the British army who
eat salt meat
were less subject to Interst fever than the Irish country
people. & it is well known the American army were
less much less afflicted with ~~fever~~ ^{Interst} fever after
they exchanged ~~part~~ fresh for salted nations of beef
apart. Dr Daw & B 1 down holds fault

Dr. Dow & B. 1 down both feet
of Chang's bird Mexican bird
How checked by nature by fast
heavy ~~low~~ rains & change
of wind. Dr. Irvine. Vol: V
of med. Surg: p: 19.

In the mild grades of the Summer & Autumnal
fevers of the United States, the means of prevention
are different from those which are proper to
prevent it in its malignant forms. ^{The latter - below it -} They
consist of such things as gently invigorate the
system, & thus create an action superior to that
to which the Body is ^{exposed} ~~pre-posed~~ by the miasmata
which ~~subside~~ have been imbibed. ^{In other words} They ~~create a~~
~~living force. The one leading to the form the other leading to the~~
~~current to destroy it by exposing it~~
I cordial Diet & Drinks, Consisting of salted meat
and fish, with a moderate quantity of wine,
or malt liquors. Spirits sh^d be used cautiously, for
when used long en^d to do good - they create ^{by} a habit of
dangerous attachment to
~~keeping them~~. A strong infusion of any bitter
^{in water} herb taken upon an empty stomach is a cheap
& excellent substitute for all the above liquors,
where they cannot be ~~aff~~ afforded. ~~water is healthy~~
~~think~~ The late ^{Prof^r} Gregory used to tell his pupils
that out of 25 ~~English~~ ^{young} English men who
were his follow students at the University of Leyden

Salind tells us
✓ The farmers of Oldmep. ~~not long lived~~ who
went out early to their work, were
rarely long lived, probably from inhaling
miasmata with the morning air.

the exciting causes of fever formerly
3 + all great ~~excitations~~ ~~should be~~
mentioned should be avoided with some common
care is 3 days before & 3 days after the full or
change of the moon.

among whom was the late John Wilkes, ~~from~~ ^{from} during
 twenty four of them escaped an Epidemic Intermittent
 upon inquiry it was found while the only one ~~was~~
 they all drank wine daily. The body ~~one~~ who was
 one of them only was affected by an Epidemic In-
 -termittent which prevailed in the tower. He drank
 water only - ~~the~~

Intermittent
 - twenty four of them escaped an Epidemic which pre-
 -vailed in the tower, ~~they all~~ ^{by} drank & wine daily. The
 only one of their number who was affected by it
 drank nothing but water. Bark ~~which~~ ^{has sometimes}
 been taken daily with advantage as a preventive of the ~~mild~~
~~In addition to~~ with these cordial articles of Diet
 & medicine,
 & drinks, perspiration should be kept up by ~~means~~
 2. ^{and warm} clothing. - the early morning, & the evening
 fire should be kindled in cool & damp
 weather, ~~and~~ also in the mornings & evenings in
 common sitting rooms. ~~and~~ By these means thou-
 sands have been preserved from ^{mild} remitting and
 & chronic
 intermitting fevers in the most sickly seasons,
 and countries. +

Summer &
 The intestinal state of our autumnal

Mr Duran tells us
✓ The fushek Soldiers ~~into~~ while in Egypt,
carried pepper boxes with them to eat with
the fruits of the Country wherever they went,
and thereby escaped the diseases of the Country.

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disease - requires ~~general~~ ^{specific} ~~some~~ several speci-
-fic means to prevent them, different from those
which are proper to defend the blood vessels from it.
Unripe, and decayed fruit should be avoided while
that ~~the~~ which is ripe & sound should not be
^{eaten} ~~taken~~ in ^{an} excessive quantity. ~~Spices~~ ^{Especially}
Cayenne pepper & the red pepper of our country
should be taken ~~with the~~ daily with food, Mr Bane
says the inhabitants of one ^{of the countries he visited} ~~were~~ ^{made it a} ~~practice~~ ^{practice}
to in the season of bowels complaints to eat
pepper in such quantities as to excoriate their
throats ^{with it}. The whole diet should at such
times be of a cortical nature. A Dysentery ^{was the} ~~was~~
- ^a ~~remedy~~ ^{remedy} few years ago to ~~prevail only in the night?~~
of Georgetown in Maryland ~~only among~~ ^{only among} ~~the~~ ^{the} ~~Protestant~~ ^{Protestant} families. The members of the
Catholics who ~~lived~~ ^{lived} in conformity to one
of the canons of their Church ~~eat~~ ^{eat} ~~richly~~ ^{richly} ~~of some~~ ^{of some}
- times of salted fish ~~was~~ ^{was} very generally
escaped it. In the year 1764 while I ~~was~~ ^{was} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~country~~ ^{country}

v It was once prevented in all the boys
of the Bordentown Academy while it
was epidemic in that town, by giving them
Prolaps in large quantities in their Diet
& drinks. It probably acted only as a purge.

out in the Village of Princeton & affected many of
 the Students of the College. ~~It~~ It was remarkable
 it passed by all those boys who came from the cities
 of Philad^a & New York. This was ascribed to their habits
 of living ^{more upon} ~~and~~ coffee than the ^{farmers} ~~former~~ ^{farmers} ~~former~~ ^{farmers} ~~former~~
 those articles of diet were ~~there~~ but rarely used
 in 45 years ago in the farm houses ^{of the ind.} ~~of the ind.~~
 of the States of America.
 Country. It is probably to ~~this~~ the more cordial
 Nature of the diet of the inhabitants of our
 cities than of Country places, that the Dysentery
 is so ~~rarely~~ rarely prevails in them. I have never
 seen it Epidemic in Philad^a -

Another means of preventing the Dysentery
 is to avoid Costiveness, ^{to cleanse the bowels with them} ~~It is generally~~ ^{at an early} ~~restored in~~
 they are in a natural state.
 by it. A Captain of the militia of Pennsylvania
 preserved his whole company from a Dysentery w.
 prevailed in ^{a part of} the American Army ^{at Annapolis} in 1746 by giving
 each of them a purge of Salt Water. He preserved
 his family & many of his neighbours some
 years afterwards from the same disease by dividing
 among them a few pounds of Glauber Salts. ✓

~~500 people~~
✓ The plague ~~is~~ Purchas Destroy: 500 persons less the
Day after the Nile completely overflows its ancient bounds,
than it does the day before. † In the matters which
this was done with ~~by~~ ^{then} ~~by~~ ^{may be} washed away by larger
streams of water? Imgedocles checked the plague
at Schiris by pouring the streams of two neighbouring
rivers upon the fith which produced it. ✓ Purchas
tells us ~~the plague~~ ^{that} Destroy 500 people ^{die} less, the
day after the Nile completely overflows the
grounds which emits putrid exhalations ~~than~~
Died the day before. he above †

As the Dysentery ⁴⁴ is often excited by the dampness
of the night Air, great care sh^d be taken ^{to defend the} ~~to defend the~~
bowels when exposed to it, to defend the bowels by ^{more} ~~and~~
^{unusually} warmth, than ~~ordinarily~~ other parts of the body. The Egyptian
bandage or Belt sh^d be used for this purpose.
II. I come now according to the order I proposed,
to the preserving whole

II. I come now according to
to mention the means of ~~success~~ preserving whole
cities, or communities from the influence of
those morbid exhalations which produce the malarial
forms of the Summer & Autumnal Disease of $\frac{e}{y}$.
United States.

United States.

As the flight of a whole city is rarely practicable, it will be necessary to seek for the means of destroying the morbid miasmata.

methic

but permit them are

1 where the ^{metals} matters which emit them are
 liable of a small extent they may be ^{around} ~~considered~~
 covered, ^{with earth or water.} ~~The malignant bilious fever was~~

During the prevalence of a malign^t fever it
will be unsafe to remove ^{filthy matters} ~~them~~. A plague
was generated by an attempt to clean the
filth ~~from the~~ which had accumulated

Am brose Parry says the plague was
once checked by in a city in Italy by killing
all the cats & dogs in the place, & suffering
them to putrefy in the streets. The yellow fever
has never appeared in the Salt Lake country.

has never appeared
manifest near this city, & rarely in the
vicinity of ^{any} ~~the~~ ^{the} ~~Lan~~ ^{Lan} ~~pitta~~ ^{pitta} in its suburbs - perhaps
from the effluvia emitted by them. It
has been said that the plague has never visited
London since the sea use of Sea Coal for fuel.
It is possible its smoke may have been useful,
but other causes have contributed to prevent it: former-
_{= by mentioned.}

on the banks of the waters which surround the City of Mantua during the summer & autumnal months. Even a shower of rain by disturbing a pellicle which sometimes is formed over ~~putrid~~ putrid matters, has ~~let~~ more than once let loose ~~so~~ exhalations that ~~has~~ have produced a pestilential disease.

2 Lime has been found to be a powerful antidote to ~~putrid~~ ~~is~~ the air extricated by putrefaction. It has often been thrown into privies with obvious advantage in sickly seasons. How far it might be employed to destroy the foul air of ^{ships - cellars} docks, & common sewers ~~remains~~ remains yet to be determined by future experiments.

3 ^{River side} purifying the air ~~with certain effluvia~~ ~~with certain effluvia~~ which acts ~~is~~ either by destroying miasmata, ✓

4 Mr. Mosman has lately proposed the muriatic gas as a means of destroying miasmata. However effectual this & the vitriolic gas may be in

V of preventing pestilential diseases. His
name like Vano a Roman general was
exposed with a large fleet & army at Cor-
-ra to a malignant fever. He discovered the
cause of the miasmata which produced it
to be from the south - in consequence of
which he fastened up all the southern
windows & doors of the houses in which
his troops were quartered, & opened new ones
to the north, by which means he preserved
his troops from the fever which prevailed
in all the other houses of the neighborhood.

Mr Howard advises keeping the doors & windows
of houses exposed to the plague, constantly shut,
~~during~~ except during the period of sunshine.

destroying the foul air generated by, & discharged
 from the human body in confined & filthy in-
 habitations, neither of them is calculated to oppose
 the progress of a disease which exist in the external
 atmosphere & spread over a large extent of ^a ~~some~~ ^{its}
 city or country. Mr. Moreau indeed tells his
 his Annular Gas checked the late malig⁺
 fever of 1801 at Cadix - ~~but in~~ ^{to refute} ~~to refute~~ ^{to refute} it was
 used ^{late in} the season at which time ~~that~~ it is much
 more probable the disease was destroyed as it is in
 all other countries in middle latitudes, by cold
 weather. Tubs of water in 1797.

5 Varron in his treatise upon agriculture
 mentions a curious fact upon the means
 The explosion of gun powder has been proposed
 to change the state of the atmosphere, but no be-
 nefit has ever been derived from it.
 The large fires ^{have been made} in the Streets of Cities ^{have been}
 made ^{not} for the same purpose, but without
 producing any good effects. ~~They~~ ^{They} ~~Hodges~~
 says they were hurtful in the ^{early} ~~great~~ plague of 1865 in

+ Interposing Rivers - water etc.

V ~~Describes~~ In the Character given by Luther
of Pope Julius, he ~~ascribes~~ says he kept
the Streets of Rome, so clean & sweet, that
there ^{were} ~~was~~ no plagues, nor sicknesses During
his time."

Remembering the time of Pope Julius 2nd
see Luther -

which had ^{afflicted}
~~been visited~~ nearly every year for above half
a century, ~~has never~~ by the plague has

England in the year 1665 to ~~as~~ to afford an
 Asylum to the ~~work~~ ^{Royal family of King & Queen} from the plague
 which ravaged London & many other parts of
 Eng^d in the year 1665 ^{only} in consequence of
 its being ~~recently~~ ^{some years before} cleansed by the Bishop
 of Winchester

2 In the construction of ~~our~~ cities, ^{but} narrow
 streets & alleys ^{Deep} should be carefully avoided. ~~a large~~
^{lots} ~~space~~ should be left for a yard, or garden for
 every house, ^{subterraneous channels for the running of the water} and ~~in~~ a great advantage would
 arise, could cities be built so as to leave ^{squares} vacancies
 between ~~equal to those~~ ^{equal} in number & size to
 those which were covered with houses. Perhaps
 the light & dark squares of a checker board
 might serve as a model for ~~each town or city~~ ^{the execution}
 of such a plan for ~~a city~~ all cities which are
 to contain more than 5000 people. The city of
 London ~~had~~ ^{has} never been visited by the plague ~~since~~ ^{it since}
 the destruction of the ~~house~~ ^{by fire} closed wooden
 buildings in the year 1666. Heaven seems as if
 approved by the sufferings of ~~that city~~ ^{the citizens of London} ~~the year before~~
 citizens

v

I have met with many excellent quotations from
 a work upon this part of our subject by Torzetti a
 physician of Italy from which I have no doubt much
 useful information might be obtained. ^{The Rev. Thos. Hall} A gentleman
 at Leghorn to whom I made an unsuccessful ap-
 plication for this work speaks of it in no answer
 to my letter in the following terms. "Torzetti has
 in such high estimation that the late Emperor
 Leopold when Grand Duke of Tuscany caused it to
 be printed at his own expense, & presented it to
 his friends. The consequence of this, was
 it influenced the proprietors of low, marshy
 lands in the neighbourhood of the River Arno
 to drain & cultivate
 them, and thereby rendered ~~them~~ the abode of
 noxious ~~pestilential~~ air, and malignant fevers, a true
 -trial paradise"

Plague checked by Quares &c

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becoming by its exhalations a source of our
 disease. ^{a law to require Phys: report on each}
^{first case of fever}

In speaking of the means of preventing
 external the malignant forms of our ~~human~~ fevers,

it may appear strange that I have said
 nothing of the efficacy of Quarantines to ~~defend~~ ^{defend} our
 interior from that purpose. where I now

^{addressing} ~~address~~ ^{standing} before an audience composed
 exclusively of citizens of Philadelphia, I would
 do homage to their ^{in a respectful & melancholly silence,} ~~habits~~ ^{in a respectful & melancholly silence,}
~~be silent upon this subject,~~ ^{I would request}
 permission to retire for a few minutes to in-

-de Deplore in secret the evils which ~~the~~ a belief
 in ~~our country~~ ^{Quarantines} has done to our country

But as I am ^{speaking to an} ~~addressing~~ ^{gentlemen} ~~of unprejudiced minds~~
~~assembly of citizens of other states~~ ^{gentlemen from} ~~and whose~~
~~whose minds are free of prejudice open to a reason~~ ^{all the states in the Union, as any}
~~the dictates of reason,~~ ^{whose minds are free of prejudice open to a reason}
~~are unprejudiced upon this subject,~~ ^{the dictates of reason,}

saps in asserting that ~~they are a malignant~~ ^{quarantines are of}
 no efficacy in preventing ~~the~~ our malignant

to
 V medicine in our country, & that hundred
 who would blush to write in the cry of
 "great is Diana of Ephesus" are ^{ashamed} not to ^{be}
 claim; - "great are ^{the} quarantines of all
 our states." knocked out brains,

Should ~~and~~ I attempt to enumerate all the
 evils which ~~as a~~ ^{the} belief in this error has introduced
 into our country, my lecture would not end
 with the day. Thousands of our citizens have
 been conveyed by it to premature graves. Millions
 of Dollars have been wasted by its ~~its~~ fatal in-
 fluence upon the public mind. By unnecessarily
 shutting up the ports of foreign countries against
 our ships, it has impaired our commerce, agri-
 culture & manufactures. But this is not all.
 The belief in the contagious nature of the yellow
 fever which is ~~so~~ so solemnly ^{and} enforced by
 quarantines has demoralized our citizens,
 & in some instances petrified their very hearts.

bilious fumes, in any other way than by excluding
 the foul air that is generated in the hold of a ship
 which may be done as easily in a single day as
 as in weeks or months. They originated in ^{many}
 error, and have been kept up for ~~many~~
~~centuries~~ years by a supine & traditional faith in
 the opinions and conduct of our Ancestors in
 medicine. They do violence to reason & Science
 by ^{rejecting} ~~disproving~~ the connection between all the
 changes which take place ~~between~~ in the animal
 vegetable & aerial kingdoms, and the existence
 of pestilence, and thus ^{under} ~~defeat~~ the ~~short~~ ^{to} ~~trivial~~
 or large portion of the goodness of heaven ^{to}
 the children of men. In a word, they ^{produce} ~~are~~ ~~the~~

all the evils of the fatalism of the Turks un-
 der a ~~superstition~~ the cover of a popular & imposing
 name. In contemplating the prevalence of a
 general ~~prevalence~~ belief in Quarantines in the
 highest & most respectable classes of Citizens
~~that~~ we are disposed to believe there has been
 a ^{translation} ~~translation~~ of Superstition from Religion

future ravages of war ~~upon the lives of our~~
the depopulation of our cities from the filth
now generating in ^{their} bowels - the ^{Destruction} decay of our
trade, & the universal poverty, & ^{Districts} of our country
~~populations by the deaths of thousands of our citizens~~
~~perish from the continuance of war~~ ~~in our hospitals - and so from the operation~~
~~Domestic~~ ~~problems among us,~~
- did not a ray of light break in from the
east to ^{dispel} ~~dissipate~~ the gloom which such a
dreadful anticipation are calculated to create.
~~the scourge of our globe~~
Yes - the plague, ~~which has been believed from~~
~~time only among the offspring~~
has lately been discovered to be a disease of our
of domestic exhalations & incapable of being com-
municated by contagion, & ^{equally} ~~is of course~~ subject to destruction.
A more important
discovery more pregnant with blessings to man-
kind, has ~~never~~ ^{seldom} been made. ~~Its general~~ ^{universal} ~~importance~~

It ~~also~~ has extinguished friendships - anni-
-hilated religion - and even violated the
sacrament of nature by resisting the loud &
vehement cries of filial and parental blood.

In contemplating Gent. all the present
operation of all the causes which have pro-
-duced the public & private calamities that
have been mentioned, I ^{should} feel disposed to retire
from your presence, & deplore in secret
the future depopulation of our cities, ~~from~~
~~the filth now generating in them~~ the destruc-
-tion of our commerce, & the universal poverty
& distress of our ^{citizens} ~~country~~ from the continuance
& increase of all the causes of domestic pes-
-tilence among us, - did not a ray of light
break in from the East to dispel the gloom
which such anticipations are calculated
to create — Yes the plague, the scourge
& terror of our globe, has been proved, like
our ~~gotten~~ American yellow fever, to be the

55.
offspring of domestic exhalations, ^{to be} in-
capable of being communicated ~~of~~ by contagion.
and of course, to be subject to destruction. A
discovery more pregnant with blessings to man-
kind, has seldom been made. Its universal
adoption is ensured by the physicians, and
philosophers of two great ^{& hostile} nations concurring
to disseminate it over every part of the world.
Pyramids of error, the work of superstitious
Ages and nations must fall before it, &
rivers of tears must be dried up by it.
No wonder death, abashed by the defeat he
has met with from Science in Egypt, has
latently grasped the sword of war with tenfold
fury, as if conscious it was the only re-
maining instrument of the general, and
sudden destruction of the human race.

over
v = true of Antimonial Air, ~~and~~ shall no
more be Damp'd by Antimonial Richness. ^{An} The
accidental ~~existence~~ of a kind of bilious fever
shall expose the place where it ^{is generated} exists to obloquy
& disgrace.

50

only with probibitrial exhalations, shall be
converted into fruitful fields, and afford pleasant
~~the pleasure of~~ healthy shades for the children of men. Ropy health
and sound strength shall meet the pale, or
fallow countenance ~~of the~~ upon the banks
of our creeks & rivers. The creation of the
earth should no longer be separated from
a powerful source of repulsion between ma-
n-kind shall be removed, and commerce flow
shall take of drops the fetters which have been
imposed upon it by vibrations & expansive
influence of contagious diseases. Quarantines
shall cease to be the vexatious causes of un-
necessary expense, or lazarettes of old men
a yellow, or a red eye, in a
disease - man the sight of a man in the
chilly fit of a fever, shall no longer be a signal
for flight leaving to a fellow creature to
perish without aid alone in a gutter or a barn.
The number of diseases shall be limited, & the
most mortal of them shall be struck out of the list
of human evils. It is impossible to hear

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future
this happy change is the condition of our
globe & of the melioration of the physical condition of
man without ~~any~~ without cherishing
a hope that some great esp. change equally
favourable to his moral & intellectual hap-
piness is about to take place upon our globe.
The hope is strengthened by the similar influence w:
the late discovery of vaccination is calculated
to produce upon the increase of the hu-
man species. even we can scarcely believe
are to be multiplied beyond all former times,
only to have ~~as much the number as~~ ^{well the number as} ~~twice~~ of slaves
to devote more copiously of the former ^{numerous} ~~more~~
~~extensive~~ because they afford more extensive
subjects for the crueries which are con-
ducted with ^{the prevailing} ~~the same~~ ^{ignorance}, since slavery of
the greatest part of the inhabitants of the world. But
But I return from this trifling
— the certain drops — selfish interests
of Dr. Johnson with reluctance from the
conviction which my attachment to our science

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~~had led me~~ — the delightful prospects into
 activity, to which ^{as a patient or a friend} my attachment ^{to the}
 discovery ^{had led me}. — I have only to sug-
 gest to ^{you first} ~~the members of our Society~~ that
 it to render it, ^{this discovery} ~~was all the other means of~~
 effort extensively & speedily useful, our labors
 must second the researches of our Envoys
 in brethren. Let us ever recollect that
 we are the sentinels of the health &
 lives of our fellow citizens, and that ^{higher}
 is a grade of ^{highest} merit in ~~our~~ our profession much
^{greater than} ~~above~~ that which ~~consists~~ arises from
 the cure of diseases. It consists in destroying
~~contaminating their causes, & thereby~~ destroying
 them, by exterminating their causes.

For the attention with ^{which} you have
 honored my detail of facts, I beg you to receive
 my ~~most~~ grateful acknowledgments, ^{for its display} I solicit your
 pardon, ^{and} ~~for~~ its length, — I beg your forgiveness, with my best

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wishes for the usefulness & prosperity of our
 Society, ~~and for the individual happiness of each~~
 my colleagues, ~~this~~ ^{cordial} ~~of you~~ - I bid you ~~Adieu!~~ ^{on} I
 request each of you to accept of my most
 cordial salutations.

